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Claims

1	 A wireless telephone system comprising:
2	a mobile wireless telephone member including:
3	short range radio frequency communication means
4	for transmitting and receiving voice data over a
5	short range;
6	long range radio frequency communication means
7	for transmitting and receiving voice data over a
8	long range;
9	stationary communication means for receiving and
10	transmitting voice data from and to said mobile wireless
11	member voice data over said short range; and
12	stationary communication means for respectively
13	receiving and transmitting voice data from and to said

- 1 2. The wireless telephone system of claim 1 further
- 2 including means for determining whether said mobile
- 3 wireless telephone member is outside said short range
- 4 when said member is receiving or transmitting said voice

mobile wireless member voice data over said long range.

5 data.

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- 1 3. The wireless telephone system of claim 2 further
- 2 including means for communicating with said mobile
- 3 wireless telephone member through said stationary short
- 4 range radio frequency means whenever said member is
- 5 determined not to be outside of said short range.

- 1 4. The wireless telephone system of claim 3 further
- 2 including means for communicating with said mobile
- 3 wireless telephone member through said stationary long
- 4 range radio frequency means whenever said member is
- 5 determined to be outside of said short range.

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1	5. A wireless telephone system comprising:
2	a mobile wireless telephone member including:
3	short range radio frequency communication means
4	for transmitting and receiving voice data over a
5	short range;
6	long range radio frequency communication means
7	for transmitting and receiving voice data over a
8	long range;
9	a cordless base member, wired into a wired telephone
10	network, for receiving and transmitting from and to said
11	mobile wireless member voice data over said short range;
12	and
13	stationary communication means for respectively
14	receiving and transmitting to and from said mobile
15	wireless member voice data over said long range.

- 1 6. The wireless telephone system of claim 5 further
- 2 including means for determining whether said mobile
- 3 wireless telephone member is outside said short range
- 4 when said member is receiving or transmitting said voice
- 5 data.
- 1 7. The wireless telephone system of claim 6 further
- 2 including means for communicating with said mobile
- 3 wireless telephone member through said cordless base
- 4 member whenever said member is determined not to be
- 5 outside of said short range.

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- 1 8. The wireless telephone system of claim 6 wherein said
- 2 stationary communication means for respectively receiving
- 3 and transmitting to and from said mobile wireless member
- 4 voice data over said long range and includes a wireless
- 5 telephone area base station wired into said wired
- 6 telephone network.
- 1 9. The wireless telephone system of claim 8 further
- 2 including means for communicating with said mobile
- 3 wireless telephone member through said wireless telephone
- 4 area base station whenever said member is determined to
- 5 be outside of said short range.
- 1 10. The wireless telephone system of claim 9 wherein
- 2 said means for determining whether said mobile telephone
- 3 member is outside said short range includes:
- 4 means responsive to the initiation of a telephone
- 5 call for first determining whether a radio frequency
- 6 communication from said cordless base member can reach
- 7 said mobile member, and
- 8 means responsive to a determination that said
- 9 communication from said base member cannot reach said
- 10 mobile member for then automatically switching to radio
- 11 frequency communication with said mobile member through
- 12 said wireless telephone area base station.
 - 1 11. The wireless telephone system of claim 9 wherein
 - 2 said wireless telephone system is a cellular phone
 - 3 system, and said telephone base station area is in an
 - 4 area cell within said cellular system.

- 1 12. The wireless telephone system of claim 9 further
- 2 including means in said mobile wireless member enabling a
- 3 telephone user to switch between said short range and
- 4 long range communication means whenever said member is
- 5 not outside of said short range.
- 1 13. The wireless telephone system of claim 12 further
- 2 including means in said wired telephone network for
- 3 tracking the respective times of telephone communications
- 4 through said short range and said long range means.

- 1 14. In a wireless telephone system comprising a mobile
- 2 wireless telephone member short range radio frequency
- 3 communication means for transmitting and receiving voice
- 4 data over a short range, and long range radio frequency
- 5 communication means for transmitting and receiving voice
- 6 data over a long range; stationary communication means
- 7 for receiving and transmitting voice data from and to
- 8 said mobile wireless member voice data over said short
- 9 range; and stationary communication means for
- 10 respectively receiving and transmitting voice data from
- 11 and to said mobile wireless member voice data over said
- 12 long range, a method for determining whether said
- 13 communication will be short range or long range
- 14 comprising:
- determining whether said mobile wireless telephone
- 16 member is outside said short range when said member is
- 17 receiving or transmitting said voice data, and
- communicating with said mobile wireless telephone
- 19 member through said short range radio frequency
- 20 communication whenever said member is determined not to
- 21 be outside of said short range.
 - 1 15. The method of claim 14 further including the step of
 - 2 communicating with said mobile wireless telephone member
 - 3 through said long range radio frequency communication
 - 4 whenever said member is determined to be outside of said
 - 5 short range.

- 1 16. The method of claim 15 wherein said step of
- 2 determining whether said mobile telephone member is
- 3 outside said short range includes:
- 4 responsive to the initiation of a telephone call,
- 5 first determining whether a radio frequency communication
- 6 from said stationary communication means for receiving
- 7 and transmitting voice data from and to said mobile
- 8 wireless member voice data over said short range can
- 9 reach said mobile member, and
- 10 responsive to a determination that said
- 11 communication from said stationary communication means
- 12 over said short range cannot reach said mobile member,
- then automatically switching to radio frequency
- 14 communication with said mobile member through said
- 15 stationary communication means for said long range
- 16 communication.
 - 1 17. The method of claim 16 further including the step of
 - 2 enabling a telephone user to switch between said short
 - 3 range and long range communication whenever said member
 - 4 is not outside of said short range.
 - 1 18. The method of claim 17 further including the step of
 - 2 tracking the respective times of telephone communications
 - 3 through said short range and said long range, whereby
 - 4 telephone usage may be billed at different rates.

- 1 19. A mobile wireless telephone member comprising:
- wireless means for communicating with a cordless
- 3 telephone station within a short distance range; and
- 4 means for communicating with a station in a cell of
- 5 a cellular telephone system over a longer distance
- 6 outside of said short distance range.
- 1 20. The mobile wireless telephone member of claim 19
- 2 wherein said cordless telephone station includes a
- 3 cordless telephone base.
- 1 21. The mobile wireless telephone member of claim 20
- 2 wherein said cordless telephone station is wired into a
- 3 wired telephone network.
- 1 22. The mobile wireless telephone member of claim 19
- 2 wherein said station in a cell of said cellular system is
- 3 wired into a wired telephone network.